

APPROVED JURISDICTIONAL DETERMINATION FORM
U.S. Army Corps of Engineers

SECTION I: BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR APPROVED JURISDICTIONAL DETERMINATION (JD): 01-Jul-2008

B. DISTRICT OFFICE, FILE NAME, AND NUMBER: Norfolk District, NAO-2007-03170-kab-JD1

C. PROJECT LOCATION AND BACKGROUND INFORMATION:

State : VA - Virginia
County/parish/borough: York
City:
Lat: 37.1919
Long: -76.4996
Universal Transverse Mercator: []
Name of nearest waterbody: Poquoson River
Name of nearest Traditional Navigable Water (TNW): Poquoson River
Name of watershed or Hydrologic Unit Code (HUC): 02080108



Check if map/diagram of review area and/or potential jurisdictional areas is/are available upon request.



Check if other sites (e.g., offsite mitigation sites, disposal sites, etc.) are associated with the action and are recorded on a different JD form.

D. REVIEW PERFORMED FOR SITE EVALUATION:



Office Determination Date: 01-Jul-2008



☐ 03-Oct-2007

Field Determination Date(s):

SECTION II: SUMMARY OF FINDINGS

A. RHA SECTION 10 DETERMINATION OF JURISDICTION

There ☐ "navigable waters of the U.S." within Rivers and Harbors Act (RHA) jurisdiction (as defined by 33 CFR part 329) in the review area.



Waters subject to the ebb and flow of the tide.



Waters are presently used, or have been used in the past, or may be susceptible for use to transport interstate or foreign commerce.

Explain:

B. CWA SECTION 404 DETERMINATION OF JURISDICTION.

There ☐ "waters of the U.S." within Clean Water Act (CWA) jurisdiction (as defined by 33 CFR part 328) in the review area.

1. Waters of the U.S.

a. Indicate presence of waters of U.S. in review area:¹

| Water Name | Water Type(s) Present |
|-------------------|---|
| NAO-2007-3170 PFO | Wetlands directly abutting RPWs that flow directly or indirectly into TNWs |
| NAO-2007-3170 RPW | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs |

b. Identify (estimate) size of waters of the U.S. in the review area:

Area: (m²)

Linear: (m)

c. Limits (boundaries) of jurisdiction:

based on: 1987 Delineation Manual.

OHWM Elevation: (if known)

2. Non-regulated waters/wetlands:³

Potentially jurisdictional waters and/or wetlands were assessed within the review area and determined to be not jurisdictional. Explain:

SECTION III: CWA ANALYSIS

A. TNWs AND WETLANDS ADJACENT TO TNWs

1. TNW

Not Applicable.

2. Wetland Adjacent to TNW

Not Applicable.

B. CHARACTERISTICS OF TRIBUTARY (THAT IS NOT A TNW) AND ITS ADJACENT WETLANDS (IF ANY):**1. Characteristics of non-TNWs that flow directly or indirectly into TNW****(i) General Area Conditions:**

Watershed size: 136320 acres

Drainage area: 500 acres

Average annual rainfall: 40 inches

Average annual snowfall: inches

(ii) Physical Characteristics**(a) Relationship with TNW:**☒ Tributary flows directly into TNW.☐ Tributary flows through [] tributaries before entering TNW.

:Number of tributaries

Project waters are 5-10 river miles from TNW.

Project waters are 1 (or less) river miles from RPW.

Project Waters are 2-5 aerial (straight) miles from TNW.

Project waters are 1 (or less) aerial(straight) miles from RPW.



Project waters cross or serve as state boundaries.

Explain:

Identify flow route to TNW:⁵

Onsite tributaries flow directly into the Poquoson River (perennial). The river is impounded in one section (Harwood Mills Reservoir) and is then a tidal TNW at the lower end of the impoundment.

Tributary Stream Order, if known:

| Order | Tributary Name |
|-------|-------------------|
| 1 | NAO-2007-3170 RPW |

(b) General Tributary Characteristics:**Tributary is:**

| Tributary Name | Natural | Artificial | Explain | Manipulated | Explain |
|-------------------|---------|------------|---------|-------------|---------|
| NAO-2007-3170 RPW | X | - | - | - | - |

Tributary properties with respect to top of bank (estimate):

| Tributary Name | Width (ft) | Depth (ft) | Side Slopes |
|-------------------|------------|------------|-------------|
| NAO-2007-3170 RPW | 4 | 4 | 2:1 |

Primary tributary substrate composition:

| Tributary Name | Silt | Sands | Concrete | Cobble | Gravel | Muck | Bedrock | Vegetation | Other |
|-------------------|------|-------|----------|--------|--------|------|---------|------------|-------|
| NAO-2007-3170 RPW | - | X | - | - | X | - | - | - | - |

Tributary (conditions, stability, presence, geometry, gradient):

| Tributary Name | Condition\Stability | Run\Riffle\Pool Complexes | Geometry | Gradient (%) |
|-------------------|---------------------|---------------------------|------------|--------------|
| NAO-2007-3170 RPW | fairly stable | - | Meandering | - |

(c) Flow:

| Tributary Name | Provides for | Events Per Year | Flow Regime | Duration & Volume |
|-------------------|---------------|-----------------|-------------|-------------------|
| NAO-2007-3170 RPW | Seasonal flow | 20 (or greater) | - | - |

Surface Flow is:

| Tributary Name | Surface Flow | Characteristics |
|-------------------|-----------------------|-----------------|
| NAO-2007-3170 RPW | Discrete and confined | - |

Subsurface Flow:

| Tributary Name | Subsurface Flow | Explain Findings | Dye (or other) Test |
|-------------------|-----------------|------------------|---------------------|
| NAO-2007-3170 RPW | Unknown | - | - |

Tributary has:

| Tributary Name | Bed & Banks | OHWM | Discontinuous OHWM ⁷ | Explain |
|-------------------|-------------|------|---------------------------------|---------|
| NAO-2007-3170 RPW | X | X | - | - |

Tributaries with OHWM⁶ - (as indicated above)

| Tributary Name | OHWM | Clear | Litter | Changes in Soil | Destruction Vegetation | Shelving | Wrack Line | Matted/Absent Vegetation | Sediment Sorting | Leaf Litter | Scour | Sediment Deposition | Flow Events | Water Staining | Changes Plant | Other |
|-------------------|------|-------|--------|-----------------|------------------------|----------|------------|--------------------------|------------------|-------------|-------|---------------------|-------------|----------------|---------------|-------|
| NAO-2007-3170 RPW | X | X | X | X | X | X | - | - | - | X | - | X | - | X | - | - |

If factors other than the OHWM were used to determine lateral extent of CWA jurisdiction:

High Tide Line indicated by:

Not Applicable.

Mean High Water Mark indicated by:

Not Applicable.

(iii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

| Tributary Name | Explain | Identify specific pollutants, if known |
|-------------------|-------------------------------------|---|
| NAO-2007-3170 RPW | No visual indications of pollution. | VOCs from roadways (oil, gas), pollutants from air (sulfates and nitrates and heavy metals), pet wastes, agricultural wastes. |

(iv) Biological Characteristics. Channel supports:

| Tributary Name | Riparian Corridor | Characteristics | Wetland Fringe | Characteristics | Habitat |
|-------------------|-------------------|-----------------------|----------------|-----------------|---------|
| NAO-2007-3170 RPW | X | intermittent - varies | - | - | X |

Habitat for: (as indicated above)

| Tributary Name | Habitat | Federally Listed Species | Explain Findings | Fish/Spawn Areas | Explain Findings | Other Environmentally Sensitive Species | Explain Findings | Aquatic/Wildlife Diversity | Explain Findings |
|-------------------|---------|--------------------------|------------------|------------------|------------------|---|------------------|----------------------------|---|
| NAO-2007-3170 RPW | X | - | - | - | - | - | - | X | Wetlands and waters provide habitat and food for amphibians, reptiles, and possible fish, as well as many species of birds. The flow of organics from this site also provides organics to all downstream waters and wetland ecosystems. |

2. Characteristics of wetlands adjacent to non-TNW that flow directly or indirectly into TNW

(i) Physical Characteristics:

(a) General Wetland Characteristics:

Properties:

| Wetland Name | Size (Acres) | Wetland Type | Wetland Quality | Cross or Serve as State Boundaries. Explain |
|-------------------|--------------|--------------|-----------------|---|
| NAO-2007-3170 PFO | 1 | PFO | average | - |

(b) General Flow Relationship with Non-TNW:

Flow is:

| Wetland Name | Flow | Explain |
|-------------------|--------------------|---------|
| NAO-2007-3170 PFO | Intermittent flow. | - |

Surface flow is:

| Wetland Name | Flow | Characteristics |
|-------------------|-----------------------|-----------------|
| NAO-2007-3170 PFO | Discrete and confined | - |

Subsurface flow:

| Wetland Name | Subsurface Flow | Explain Findings | Dye (or other) Test |
|-------------------|-----------------|------------------|---------------------|
| NAO-2007-3170 PFO | Unknown | - | - |

(c) Wetland Adjacency Determination with Non-TNW:

| Wetland Name | Directly Abutting | Discrete Wetland Hydrologic Connection | Ecological Connection | Separated by Berm/Barrier |
|-------------------|-------------------|--|-----------------------|---------------------------|
| NAO-2007-3170 PFO | Yes | - | - | - |

(d) Proximity (Relationship) to TNW:

| | | | | |
|--|--|--|--|--|
| | | | | |
|--|--|--|--|--|

| Wetland Name | River Miles From TNW | Aerial Miles From TNW | Flow Direction | Within Floodplain |
|-------------------|----------------------|-----------------------|-----------------------------|-------------------|
| NAO-2007-3170 PFO | 5-10 | 2-5 | Wetland to navigable waters | - |

(ii) Chemical Characteristics:

Characterize tributary (e.g., water color is clear, discolored, oily film; water quality; general watershed characteristics, etc.).

| Wetland Name | Explain | Identify specific pollutants, if known |
|-------------------|---------|---|
| NAO-2007-3170 PFO | - | VOCs from roadways (oil, gas), pollutants from air (sulfates and nitrates and heavy metals), pet wastes, agricultural wastes. |

(iii) Biological Characteristics. Wetland supports:

| Wetland Name | Riparian Buffer | Characteristics | Vegetation | Explain |
|-------------------|-----------------|-----------------------|------------|---------|
| NAO-2007-3170 PFO | X | intermittent - varies | - | - |

Habitat for:

| Wetland Name | Habitat | Federally Listed Species | Explain Findings | Spawn Area | Explain Findings | Other Environmentally Sensitive Species | Explain Findings | Aquatic/Wildlife Diversity | Explain Findings |
|-------------------|---------|--------------------------|------------------|------------|------------------|---|------------------|----------------------------|---|
| NAO-2007-3170 PFO | X | - | - | - | - | - | - | X | Wetlands and waters provide habitat and food for amphibians, reptiles, and possible fish, as well as many species of birds. The flow of organics from this site also provides organics to all downstream waters and wetland ecosystems. |

3. Characteristics of all wetlands adjacent to the tributary (if any):

All wetlands being considered in the cumulative analysis:

Not Applicable.

Summarize overall biological, chemical and physical functions being performed:

Not Applicable.

C. SIGNIFICANT NEXUS DETERMINATION

A significant nexus analysis will assess the flow characteristics and functions of the tributary itself and the functions performed by any wetlands adjacent to the tributary to determine if they significantly affect the chemical, physical, and biological integrity of a TNW. For each of the following situations, a significant nexus exists if the tributary, in combination with all of its adjacent wetlands, has more than a speculative or insubstantial effect on the chemical, physical and/or biological integrity of a TNW. Considerations when evaluating significant nexus include, but are not limited to the volume, duration, and frequency of the flow of water in the tributary and its proximity to a TNW, and the functions performed by the tributary and all its adjacent wetlands. It is not appropriate to determine significant nexus based solely on any specific threshold of distance (e.g. between a tributary and its adjacent wetland or between a tributary and the TNW). Similarly, the fact an adjacent wetland lies within or outside of a floodplain is not solely determinative of significant nexus.

Findings for: NAO-2007-3170 PFO, NAO-2007-3170 RPW

The RPW with "seasonal" flow in combination with its adjacent wetlands have the capacity to carry and reduce the amount of pollutants, transfer, breakdown, and removal of nutrients and organic compounds, and support aquatic / wildlife habitat and ecology. The tributary provides water storage and reduces flooding. The stream also serves to and increase water quality of storm water run off from agricultural fields and residential sites, thus reducing the amounts of pollutants from reaching the TNW. The stream contributes to and supports commerce in the TNW.

D. DETERMINATIONS OF JURISDICTIONAL FINDINGS. THE SUBJECT WATERS/WETLANDS ARE:

1. TNWs and Adjacent Wetlands:

Not Applicable.

2. RPWs that flow directly or indirectly into TNWs:

Not Applicable.

Provide estimates for jurisdictional waters in the review area:

| Wetland Name | Type | Size (Linear) (m) | Size (Area) (m ²) |
|-------------------|---|-------------------|-------------------------------|
| NAO-2007-3170 RPW | Relatively Permanent Waters (RPWs) that flow directly or indirectly into TNWs | 30.48 | - |
| Total: | | 30.48 | 0 |

3. Non-RPWs that flow directly or indirectly into TNWs:⁸

Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

4. Wetlands directly abutting an RPW that flow directly or indirectly into TNWs.
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:

| Wetland Name | Type | Size (Linear) (m) | Size (Area) (m²) |
|-------------------|--|-------------------|------------------|
| NAO-2007-3170 PFO | Wetlands directly abutting RPWs that flow directly or indirectly into TNWs | - | 4046.856 |
| Total: | | 0 | 4046.856 |

5. Wetlands adjacent to but not directly abutting an RPW that flow directly or indirectly into TNWs:
Not Applicable.

Provide acreage estimates for jurisdictional wetlands in the review area:
Not Applicable.

6. Wetlands adjacent to non-RPWs that flow directly or indirectly into TNWs:
Not Applicable.

Provide estimates for jurisdictional wetlands in the review area:
Not Applicable.

7. Impoundments of jurisdictional waters:⁹
Not Applicable.

E. ISOLATED [INTERSTATE OR INTRA-STATE] WATERS INCLUDING ISOLATED WETLANDS, THE USE, DEGRADATION OR DESTRUCTION OF WHICH COULD AFFECT INTERSTATE COMMERCE, INCLUDING ANY SUCH WATERS:¹⁰
Not Applicable.

Identify water body and summarize rationale supporting determination:
Not Applicable.

Provide estimates for jurisdictional waters in the review area:
Not Applicable.

F. NON-JURISDICTIONAL WATERS. INCLUDING WETLANDS



If potential wetlands were assessed within the review area, these areas did not meet the criteria in the 1987 Corps of Engineers Wetland Delineation Manual and/or appropriate Regional Supplements:



Review area included isolated waters with no substantial nexus to interstate (or foreign) commerce:



Prior to the Jan 2001 Supreme Court decision in "SWANCC," the review area would have been regulated based solely on the "Migratory Bird Rule" (MBR):



Waters do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction (Explain):



Other (Explain):

Provide acreage estimates for non-jurisdictional waters in the review area, where the sole potential basis of jurisdiction is the MBR factors (ie., presence of migratory birds, presence of endangered species, use of water for irrigated agriculture), using best professional judgment:
Not Applicable.

Provide acreage estimates for non-jurisdictional waters in the review area, that do not meet the "Significant Nexus" standard, where such a finding is required for jurisdiction.
Not Applicable.

SECTION IV: DATA SOURCES.

A. SUPPORTING DATA. Data reviewed for JD

(listed items shall be included in case file and, where checked and requested, appropriately reference below):
Not Applicable.

B. ADDITIONAL COMMENTS TO SUPPORT JD:

Not Applicable.

¹-Boxes checked below shall be supported by completing the appropriate sections in Section III below.

²-For purposes of this form, an RPW is defined as a tributary that is not a TNW and that typically flows year-round or has continuous flow at least "seasonally" (e.g., typically 3 months).

³-Supporting documentation is presented in Section III.F.

⁴-Note that the Instructional Guidebook contains additional information regarding swales, ditches, washes, and erosional features generally and in the arid West.

⁵-Flow route can be described by identifying, e.g., tributary a, which flows through the review area, to flow into tributary b, which then flows into TNW.

⁶-A natural or man-made discontinuity in the OHWM does not necessarily sever jurisdiction (e.g., where the stream temporarily flows underground, or where the OHWM has been removed by development or agricultural practices). Where there is a break in the OHWM that is unrelated to the waterbody's flow regime (e.g., flow over a rock outcrop or through a culvert), the agencies will look for indicators of flow above and below the break.

⁷-Ibid.

⁸-See Footnote #3.

⁹-To complete the analysis refer to the key in Section III.D.6 of the Instructional Guidebook.

¹⁰-Prior to asserting or declining CWA jurisdiction based solely on this category, Corps Districts will elevate the action to Corps and EPA HQ for review consistent with the process described in the Corps/EPA Memorandum Regarding CWA Act Jurisdiction Following Rapanos.